

## CURRICULUM VITAE

May 2020

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| name                             | Antonius Petrus Johannes (Antal) van den Bosch  |
| date of birth                    | 5 May 1969  |
| place of birth                   | Made, the Netherlands   |
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| <i>h</i> -index (Google Scholar) | 39  |

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Experienced academic with management skills. Analytically strong, innovative, solution-oriented. Sensitive to the values of those around him. Bases proposals and decisions on grounds of content, and is able to take action when the situation asks for it. Possesses a strong sense of responsibility.

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## Education

### Ph.D.

Universiteit Maastricht (The Netherlands), Department of Computer Science. Thesis *Learning to pronounce written words. A study in inductive language learning*. Defended 11 December 1997; *cum laude*.

### M.A.

Taal- en literatuurwetenschap, i.h.b. taal en informatica (, *Arts, with emphasis on computational linguistics*), Faculty of Arts, Tilburg University, The Netherlands. Diploma received 26 May 1992.

### Secondary school

Gymnasium  $\beta$ , Gertrudislyceum, Roosendaal, The Netherlands. Graduation 1987.

## Positions

**Institute director** Meertens Institute, Royal Netherlands Academy of Arts and Sciences, Amsterdam, the Netherlands. From January 2017. Fulltime (1.0 fte)

**Professor by special appointment** Language and Artificial Intelligence – Faculty of Humanities, Department of Dutch, University of Amsterdam, The Netherlands. From March 2020.

**Professor by special appointment** Language and Speech Technology – Faculty of Arts, Department of Communication and Information Sciences, Radboud University, Nijmegen, The Netherlands. January 2017–December 2019.

**Research director** Centre for Language Studies, Faculty of Arts, Radboud University, Nijmegen, The Netherlands. September 2015–December 2016.

**Full professor** Language and Speech Technology – Faculty of Arts, Department of Communication and Information Sciences, Radboud University, Nijmegen, The Netherlands. September 2011–December 2016. Fulltime (1.0 fte)

**Full professor** Memory, Language, and Meaning – School of Humanities, Tilburg centre for Cognition and Communication, and Department of Communication and Information Sciences, Tilburg University, the Netherlands. January 2008–August 2011. Fulltime (1.0 fte)

**Associate professor** – Faculty of Humanities, Department of Communication and Information Sciences (until January 2007: Faculty of Arts, Dept. of Language and Information Sciences), Tilburg University, the Netherlands. February 2006–December 2007. Fulltime (1.0 fte)

**Visiting faculty** – WhizBang! Labs–Research, Pittsburgh, PA, USA. September 2001–December 2001. Fulltime (1.0 fte)

**Assistant professor** – Faculty of Arts (Computational Linguistics and Artificial Intelligence research unit), Tilburg University, The Netherlands. February 2001–January 2006. Fulltime (1.0 fte)

**Academie–Onderzoeker** – Fellow of the Royal Netherlands Academy of Arts and Sciences (KNAW, Koninklijke Nederlandse Academie van Wetenschappen), Faculty of Arts, Computational Linguistics and Artificial Intelligence research unit, Tilburg University, the Netherlands. July 1999–January 2001. Fulltime (1.0 fte)

**Postdoc researcher** – financed by NWO, the Netherlands Organisation for Scientific Research, as part of the “Induction of Linguistic Knowledge” (ILK) project at the Faculty of Arts, Computational Linguistics and Artificial Intelligence research unit, Tilburg University, the Netherlands. September 1997–June 1999. Fulltime (1.0 fte)

**Assistent in opleiding** – Ph.D. student, Department of Computer Science, Faculty of General Sciences, Universiteit Maastricht, The Netherlands. April 1994–August 1997. Fulltime (1.0 fte)

**Research assistant** – Laboratoire de Psychologie Expérimentale, Université Libre de Bruxelles, Brussels, Belgium. January 1994–March 1994. Fulltime (1.0 fte)

**Research assistant** – Institute for Language Technology and AI, Tilburg University, the Netherlands. June 1992–December 1993. Halftime (0.5 fte)

**Research assistant** – Department of Experimental and Theoretical Psychology, Faculty of Social Sciences, Tilburg University, the Netherlands. June 1992–December 1993. Halftime (0.5 fte)

**Student assistant** – Institute for Language Technology and AI, Tilburg University, the Netherlands. September 1991–May 1992. 0.2 fte

## Other affiliations and fellowships

**Member** – Royal Netherlands Academy of Arts and Sciences, Amsterdam, The Netherlands. Elected 2012.

**Member** – Maatschappij der Nederlandse Letterkunde, Leiden, the Netherlands. Elected 2017.

**Fellow** of EurAI, European Coordinating Committee for Artificial Intelligence. Elected 2015.

**Research fellow** of Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, The Netherlands. 2011–present.

**Senior research fellow** of SIKS, Dutch Research School for Information and Knowledge Systems. 2009–present.

**Guest professor** – Faculty of Arts, Department of Linguistics, University of Antwerp, Antwerp, Belgium. January 2005–present.

## Publications

Publications are listed in the categories **thesis, books, journal articles, edited volumes, papers in proceedings and book contributions (peer-reviewed), reviews, encyclopaedic articles**. This document does not list **reports and long abstracts, non-reviewed and popularizing publications, and media productions**.

### Thesis

Van den Bosch, A. (1997) *Learning to pronounce written words. A study in inductive language learning*. Ph.D. Thesis, Universiteit Maastricht, the Netherlands. Cadier en Keer: Phidippides. ISBN 9080157724

### Books

1. Daelemans, W., and Van den Bosch, A. (2005). *Memory-based language processing*. Cambridge, UK: Cambridge University Press. ISBN 9780521808903
2. Razenberg, K., and Van den Bosch, A. (1997). *Het principe van de quaterniteit als algemeen denkraam*. Best, The Netherlands: Damon. ISBN 9789055730230

### Journal articles

1. Kunneman, F., Van Mulken, M., and Van den Bosch, A. (2020). Anticipation detection in event tweets. *International Journal on Artificial Intelligence Tools*, **29:2**. doi:10.1142/S0218213020400011
2. Kunneman, F., Lambooi, M., Wong, A., van den Bosch, A., Mollema, L. (2020). Monitoring stance towards vaccination in Twitter messages. *BMC Medical Informatics and Decision Making*, **20**. doi:10.1186/s12911-020-1046-y
3. Grondelaers, S., De Troij, R., Speelman, D., and Van den Bosch, A. (2020). Vissen naar variatie: Digitaal op zoek naar onbekende Noord/Zuid-verschillen in de grammatica van het Nederlands. *Nederlandse Taalkunde*, **25:1**, pp. 73–99.
4. Beeksmas, M., Verberne, S., Van den Bosch, A., Das, E., Hendrickx, I., and Groenewoud, S. (2019). Predicting life expectancy with a long short-term memory recurrent neural network using electronic medical records. *BMC Medical Informatics and Decision Making*, **19:36**. doi:10.1186/s12911-019-0775-2
5. Croijmans, I., Hendrickx, I., Lefever, E., Majid, A., and Van den Bosch, A. (2019). Uncovering the language of wine experts. *Natural Language Engineering*, 2019, pp. 1–20. doi:10.1017/S1351324919000500
6. Smeets, R., Sanders, E., and Van den Bosch, A. (2019). Character centrality in present-day Dutch literary fiction. *Digital Humanities Benelux Journal*, **1**, pp. 71–90.
7. Van Craenenbroeck, J., Van Koppen, M., and Van den Bosch, A. (2019). A quantitative-theoretical analysis of syntactic microvariation: Word order in Dutch verb clusters. *Language*, **95:2**, pp. 333–370. doi:10.1353/lan.2019.0033
8. Van der Deijl, L., Smeets, R., and Van den Bosch, A. (2019). The canon of Dutch literature according to Google. *Cultural Analytics*, September 2019. doi:10.22148/16.046
9. Bentum, M., Ten Bosch, L., Van den Bosch, A., and Ernestus, M. (2019). Do speech registers differ in the predictability of words? *International Journal of Corpus Linguistics*, **24:1**, pp. 101–135
10. Armeni, K., Willems, R., Van den Bosch, A., and Schoffelen, J.-M. (2019). *Neuroimage*, Online May 15, 2019. doi:10.1016/j.neuroimage.2019.04.083

11. Verberne, S., Krahmer, E., Wubben, S., and Van den Bosch, A. (2019). Query-based summarization of discussion threads. *Natural Language Engineering*, Online April 16, 2019. doi:10.1017/S1351324919000123
12. Tellings, A., Oostdijk, N., Monster, I., Grootjen, F., and Van den Bosch, A., (2018). Spelling errors of 24 cohorts of children across primary school 2012–2015: A corpus study. *Computational Linguistics in the Netherlands Journal*, **8**, pp. 83–98.
13. Tellings, A., Oostdijk, N., Monster, I., Grootjen, F., and Van den Bosch, A. (2018). Basiscript: A corpus of contemporary Dutch texts written by primary school children. *International Journal of Corpus Linguistics*, **23:4**, pp.494–508. doi:10.1075/ijcl.17086.tel
14. Lopopolo, A., Frank, S., Van den Bosch, A., and Willems, R. (2017). Using stochastic language models (SLM) to map lexical, syntactic, and phonological information processing in the brain. *PLOS ONE*, **12:5**: e0177794. doi:10.1371/journal.pone.0177794
15. Verberne, S., Krahmer, E., Hendrickx, I., Wubben, S., and Van den Bosch, A. (2017). Creating a reference data set for the summarization of discussion forum threads. *Language Resources and Evaluation*. doi:10.1007/s10579-017-9389-4
16. Hendrickx, I., Onrust, L., Kunneman, F., Hürriyetoğlu, A., Stoop, W., and Van den Bosch, A. (2017). Unraveling reported dreams with text analytics. *Digital Humanities Quarterly*, **11:4**.
17. Karsdorp, F., and Van den Bosch, A. (2016). The structure and evolution of story networks. *Royal Society Open Science*, **3:6**. doi:10.1098/rsos.160071
18. Verberne, S., Boves, L., and Van den Bosch, A. (2016). Information access in the art history domain: Evaluating a federated search engine for Rembrandt research. *Digital Humanities Quarterly*, **10:4**.
19. Ahmadi, S., Cranen, B., Boves, L., Ten Bosch, L., and Van den Bosch, A. (2016). Human-inspired modulation frequency features for noise-robust ASR. *Speech Communication*, **84**, pp. 66–82. doi:xs10.1016/j.specom.2016.09.003
20. Hallmann, K., Kunneman, F., Liebrecht, C., Van den Bosch, A., and Van Mulken, M. (2016). Sarcastic soulmates: Intimacy and irony markers in social media messaging. *Linguistic Issues in Language Technology*, **14:7**.
21. Greefhorst, A., and Van den Bosch, A. (2016). Predicting liaison: An example-based approach. *Traitement Automatique des Langues*, **57:1**, pp 13–32.
22. Van Gompel, M., and Van den Bosch, A. (2016) Efficient n-gram, skipgram and flexgram modelling with Colibri Core. *Journal of Open Research Software*, **4:1**, p.e30. doi: 10.5334/jors.105
23. Van den Bosch, A., Bogers, T, and De Kunder, M. (2016). Estimating search engine index size variability: A nine-year longitudinal study. *Scientometrics*, **107:2**, pp. 839–856. doi:10.1007/s11192-016-1863-z
24. Ittoo, A., Nguyen, L. M., and Van den Bosch, A. (2016). Text analytics in industry: Challenges, desiderata and trends. *Computers in Industry*, **78**, pp. 96–107. doi: 10.1016/j.compind.2015.12.001
25. Kunneman, F., and Van den Bosch, A. (2016). Open-domain extraction of future events from Twitter. *Natural Language Engineering*. **22:5**, pp. 655–686. doi:10.1017/S1351324916000036
26. Willems, R., Frank, S., Nijhof, A., Hagoort, P., and Van den Bosch, A. (2015). Prediction during natural language comprehension. *Cerebral Cortex*, **26:6**, 2506–2516. doi:10.1093/cercor/bhv075
27. Karsdorp, F., Van der Meulen, M., Meder, T., and Van den Bosch, A. (2015). MOMFER: A search engine of Thompson’s Motif-Index of folk literature. *Folklore*, **126:1**, pp. 37–52. doi:10.1080/0015587X.2015.1006954
28. Kunneman, F., Liebrecht, C., Van den Bosch, A., and Van Mulken, M. (2015). Signaling sarcasm: From hyperbole to hashtag. *Information Processing & Management*, **51:4**, pp. 500–509. doi:10.1016/j.ipm.2014.07.006
29. Stoop, W., and Van den Bosch, A. (2014). Improving word prediction for augmentative communication by using idiolects and sociolects. *Dutch Journal of Applied Linguistics*, **3:2**, pp. 136–153. doi:10.1075/dujal.3.2.03sto
30. Verberne, S., D’hondt, E., Van den Bosch, A., and Marx, M. (2014). Automatic thematic classification of election manifestos. *Information Processing & Management*, **50:4**, pp. 554–567. doi:10.1016/j.ipm.2014.02.006
31. Pander Maat, H., Kraf, R., Van den Bosch, A., Dekker, N., Van Gompel, M., Kleijn, S., Sanders, T., and Van der Sloot, K. (2014). T-Scan: a new tool for analyzing Dutch text. *Computational Linguistics in the Netherlands Journal*, **4**, pp. 53–74.
32. Kunneman, F., Hürriyetoğlu, A., Oostdijk, N., and Van den Bosch, A. (2014). Timely identification of event start dates from Twitter. *Computational Linguistics in the Netherlands Journal*, **4**, pp. 39–52.
33. Tellings, A., Vermeer, A., Hulsbosch, M., and Van den Bosch, A. (2014). BasiLex: an 11.5 million words corpus of Dutch texts written for children. *Computational Linguistics in the Netherlands Journal*, **4**, pp. 191–208.
34. Tjong Kim Sang, E., and Van den Bosch, A. (2013). Dealing with big data: The case of Twitter. *Computational Linguistics in the Netherlands Journal*, **3**, pp. 121–134.
35. Berendsen, R., De Rijke, M., Balog, K., Bogers, T., and Van den Bosch, A. (2013). On the assessment of expertise profiles. *Journal of the American Society for Information Science and Technology*, **64:10**, pp. 2024–2044. doi:10.1002/asi.22908
36. Van den Bosch, A. and Daelemans, W. (2013). Implicit schemata and categories in memory-based language processing. *Language and Speech*, **56:3**, pp. 308–326. doi:10.1177/0023830913484902

37. Van den Bosch, A., Morante, R., and Canisius, S. (2012). Joint learning of dependency parsing and semantic role labeling. *Computational Linguistics in the Netherlands Journal*, **2**, pp. 97–117.
38. Van de Camp, M., and Van den Bosch, A. (2012). The socialist network. *Decision Support Systems*, **53:4**, pp. 761–769.  
doi:10.1016/j.dss.2012.05.031
39. Van den Bosch, A. (2011). Effects of context and recency in scaled word completion. *Computational Linguistics in the Netherlands Journal*, **1**, pp. 79–94.
40. Haque, R., Naskar, S. K., Van den Bosch, A., and Way, A. (2011). Integrating source-language context into phrase-based statistical machine translation. *Machine Translation*, **25:3**, pp. 239–285.  
doi:10.1007/s10590-011-9100-2
41. Bogers, T., and Van den Bosch, A. (2011). Fusing recommendations for social bookmarking web sites. *International Journal of Electronic Commerce*, **15:3**, pp. 33–75.
42. Van den Bosch, A., Lendvai, P., Van Erp, M., Hunt, S., Van der Meij, M., and Dekker, R. (2009). Weaving a new fabric of natural history. *Interdisciplinary Science Reviews*, **34:2–3**, pp. 206–223.
43. Van den Bosch, A., Van den Herik, H.J., and Doerenbosch, P. (2009). Digital discoveries in museums, libraries, and archives: Computer science meets cultural heritage. *Interdisciplinary Science Reviews*, **34:2–3**, pp. 129–138.
44. Van den Bosch, A., Van Erp, M., and Sporleder, C. (2009). Making a clean sweep of cultural heritage. *IEEE Intelligent Systems*, **24:2**, pp. 54–63.
45. Van den Bosch, A., and Berck, P. (2009). Memory-based machine translation and language modeling. *The Prague Bulletin of Mathematical Linguistics*, **91**, pp. 17–26.
46. Van den Bosch, A. (2006). Spelling space: A computational testbed for phonological and morphological changes in Dutch spelling. *Written Language and Literacy*, **9:1**, pp. 25–44.
47. Maruster, L., Weijters, A., Van der Aalst, W., and Van den Bosch, A. (2006). A rule-based approach for process discovery: Dealing with noise and imbalance in process logs. *Data Mining and Knowledge Discovery*, **13**, pp. 67–87.
48. Van den Bosch, A. (2005). Scalable classification-based word prediction and confusable correction. *Traitement Automatique des Langues*, **46:2**, pp. 39–63.
49. Hoste, V., Hendrickx, I., Daelemans, W., and Van den Bosch, A. (2002). Parameter optimization for machine learning of word sense disambiguation. *Natural Language Engineering*, **8:4**, pp. 311–325.
50. Maruster, L., Weijters, A., De Vries, G., Van den Bosch, A., and Daelemans, W. (2002). Logistic-based patient grouping for multi-disciplinary treatment. *Artificial Intelligence in Medicine*, **26:1–2**, pp. 87–107.
51. Veenstra, J., Van den Bosch, A., Buchholz, S., Daelemans, W., and Zavrel, J. (2000) Memory-based word sense disambiguation. *Computers and the Humanities*, special issue on Senseval, Word Sense Disambiguations, Ed. Adam Kilgarriff and Martha Palmer, **34:1–2**.
52. Van den Bosch, A. (1999). Careful abstraction from instance families in memory-based language learning. *Journal of Experimental and Theoretical Artificial Intelligence*, **11:3**, special issue on Memory-Based Language Processing, W. Daelemans, guest ed., pp. 339–368.
53. Daelemans, W., Van den Bosch, A., and Zavrel, J. (1999). Forgetting exceptions is harmful in language learning. *Machine Learning*, **34**, pp. 11–43.
54. Weijters, A., and Van den Bosch, A. (1999). Interpreting knowledge representations in BP-SOM. *Behaviormetrika*, **26:1**, pp. 107–128.
55. Vroomen, J., Van den Bosch, A., and De Gelder, B. (1998). A connectionist model for bootstrap learning of syllabic structure. *Language and Cognitive Processes*, special issue on Language Acquisition and Connectionism, **13:2/3**, pp. 193–220.
56. Weijters, A., Van den Bosch, A., and Van den Herik, H.J. (1997). Behavioural aspects of combining back-propagation and self-organizing maps. *Connection Science*, **9:3**, pp. 253–252.
57. Daelemans, W., Van den Bosch, A., and Weijters, A. (1997). IGTrees: using trees for compression and classification in lazy learning algorithms. *Artificial Intelligence Review*, special issue on Lazy Learning, **11:1–5**, pp. 407–423.
58. Van den Bosch, A., Content, A., Daelemans, W., and De Gelder, B. (1995). Measuring the complexity of writing systems. *Journal of Quantitative Linguistics*, **1:3**, pp. 178–188.

## Edited volumes

1. Zervanou, K., and Van den Bosch, A., editors (2012). *Proceedings of the EACL 2012 workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities*, LaTeCH-2012. Avignon, France.
2. Van den Bosch, A., and Shatkay, H., editors (2012) *Proceedings of the ACL 2012 workshop on Detecting Structure in Scholarly Discourse*, DSSD-2012. Jeju, Korea.
3. Sporleder, C., Van den Bosch, A., and Zervanou, K., editors (2011). *Language Technology for Cultural Heritage: Selected Papers from the LaTeCH Workshop Series*. Berlin: Springer. ISBN 9783642202261
4. Van den Bosch, A., and Bouma, G., editors (2011). *Interactive multi-modal question answering*. Berlin: Springer. ISBN 9783642175244
5. Soudi, A., Van den Bosch, A., and Neumann, G., editors (2007). *Arabic Computational Morphology: Knowledge-based and Empirical Methods*. Berlin: Springer. ISBN 9781402060458
6. Zaenen, A., and Van den Bosch, A., editors (2007). *Proceedings of the 45th Annual Meeting of the Associa-*

tion of Computational Linguistics, ACL-2007. Prague, Czech Republic. ISBN 9781932432886

7. Sporleder, C., Van den Bosch, A., and Grover, C., editors (2007). *Proceedings of the Workshop on Language Technology for Cultural Heritage, LaTeCH-2007*. Prague, Czech Republic. ISBN 9781932432886
8. Roth, D., and Van den Bosch, A., editors (2002). *Proceedings of the Sixth Conference on Language Learning, CoNLL-2002*. Stroudsburg, PA: ACL.
9. Van den Bosch, A., and Weigand, H., editors (2000). *Proceedings of the Twelfth Belgium-Netherlands Artificial Intelligence Conference, BNAIC'00*. Tilburg: ILK/Infolab.
10. Flach, P., Daelemans, W., and Van den Bosch, A., editors (1997). *Proceedings of the Seventh Belgian-Dutch Conference on Machine Learning, BENELEARN-97*. Tilburg: ILK/Infolab.
11. Daelemans, W., Weijters, A., and Van den Bosch, A., editors (1997). *Workshop notes of ECML/MLnet Familiarization Workshop on Empirical Learning of Natural Language Processing Tasks*, April 1997, Prague, Czech Republic.

## Papers in proceedings and book contributions (peer-reviewed)

1. Sanders, E., and Van den Bosch, A. (2020). Optimising Twitter-based political election prediction with relevance and sentiment filters. In *Proceedings of the 12th Language Resources and Evaluation Conference*, Marseille, France: European Language Resources Association (ELRA), pp. 6160–6167.
2. Lopopolo, A., Frank, S.L., Van den Bosch, A., and Willems, R. (2019). Dependency parsing with your eyes: Dependency structure predicts eye regressions during reading. In *Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics (CMCL-2019)*, pp. 77–85. Minneapolis, Minnesota: ACL.
3. Tsoukala, C., Frank, S.L., Van den Bosch, A., Valdéz Kroff, J., and Broersma, M. Simulating Spanish-English code-switching: El modelo está generating code switches. In *Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics (CMCL-2019)*, pp. 20–29. Minneapolis, Minnesota: ACL.
4. Ba sar, E., Ekiz, S., and Van den Bosch, A. (2019). A comparative study on generalizability of information extraction models on protest news. In *CLEF 2019 Working Notes: ProtestNews – Extracting Protests from News*. Lugano, Switzerland: CLEF.
5. Bentum, M., Bosch, L.T., Van den Bosch, A., Ernestus, M. (2019) Listening with great expectations: An investigation of word form anticipations in naturalistic speech. In *Proceedings of Interspeech 2019*, pp. 2265–2269. doi:10.21437/Interspeech.2019-2741.
6. Bentum, M., Bosch, L.T., Van den Bosch, A., Ernestus, M. (2019) Quantifying expectation modulation in human speech processing. In *Proceedings of Interspeech 2019*, pp. 2270–2274. doi:10.21437/Interspeech.2019-2685.
7. Stoop, W., Kunneman, F., Van den Bosch, A., and Miller, B. (2019). Detecting harassment in real-time as conversations develop. In *Proceedings of the Third Workshop on Abusive Language Online*, pp. 19–24. Florence, Italy: ACL. doi:10.18653/v1/W19-3503
8. Kunneman, F., Castro Ferreira, T., Krahmer, E., and Van den Bosch, A. (2019). Question similarity in community question answering: A systematic exploration of preprocessing methods and models. In *Proceedings of the International Conference Recent Advances in Natural Language Processing*, pp. 593–601.
9. Sanders, E., and Van den Bosch, A. (2019). A longitudinal study on Twitter-based forecasting of five Dutch national elections. In *Social Informatics: Socinfo 2019*. Lecture Notes in Computer Science, Vol. 11864, pp. 128–142. Berlin: Springer.
10. Kunneman, F., Wubben, S., Krahmer, E., and Van den Bosch, A. (2018). Aspect-based summarization of pros and cons in unstructured product reviews. In *Proceedings of the 27th International Conference on Computational Linguistics, COLING-2018*. Santa Fe, New Mexico, USA.
11. Hürriyetoglu, A., Oostdijk, N., and Van den Bosch, A. (2018). Estimating time to event of future events based on linguistic cues on Twitter. In K. Shalaan, A. E. Hassanien, and F. Tolba (Eds.), *Intelligent Natural Language Processing: Trends and Applications*. Studies in Computational Intelligence, Vol. 740. Berlin: Springer.
12. Hendrickx, I., Takoulidou, E., Naskos, T., Kermanidis, K., Sosoni, V., De Vos, H., Stasimioti, M., Van Zanen, M., Georgakopoulou, P., Kordoni, V., Popovic, M., Egg, M., and Van den Bosch, A. (2018). A multilingual Wikified data set of educational material. In N. Calzolari, K. Choukri, C. Cieri, T. Declerck, S. Goggi, K. Hasida, H. Isahara, B. Maegaard, J. Mariani, H. Mazo, A. Moreno, J. Odijk, S. Piperidis, and T. Tokunaga (Eds.), *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*. Paris: European Language Resources Association (ELRA).
13. Lefever, E., Hendrickx, I., Croijmans, I., Van den Bosch, A., and Majid, A. (2018). Discovering the language of wine reviews: A text mining account. In N. Calzolari, K. Choukri, C. Cieri, T. Declerck, S. Goggi, K. Hasida, H. Isahara, B. Maegaard, J. Mariani, H. Mazo, A. Moreno, J. Odijk, S. Piperidis, and T. Tokunaga (Eds.), *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*. Paris: European Language Resources Association (ELRA).
14. Lopopolo, A., Frank, S., Van den Bosch, A., Nijhof, A., Willems, R. (2018). The Narrative Brain Dataset (NBD), an fMRI dataset for the study of natural language processing in the brain. In B. Devereux, E. Shutova, C.-R. Huang (Eds.), *Workshop on Linguistic and Neuro-cognitive resources (LiNCR)*. Paris: European Language Resources Association (ELRA).
15. Van Gompel, M., Van der Sloot, K., Reynaert, M., and Van den Bosch, A. (2017). FoLiA in practice:

- The infrastructure of a linguistic annotation format. In: J. Odijk and A. van Hessen (Eds.), *CLARIN in the Low Countries*. London: Ubiquity Press. DOI: <https://doi.org/10.5334/bbi.6>
16. Kemps-Snijders, M., Schuurman, I., Daelemans, W., Demuyne, K., Desplanques, B., Hoste, V., Huijbregts, M., Martens, J.-P., Paulussen, H., Pelemans, J., Reynaert, M., Vandeghinste, V., Van den Bosch, A., Van den Heuvel, H., Van Gompel, M., Van Noord, G., and Wambacq, P. (2017). TTNWW to the rescue: No need to know how to handle tools and resources. In: J. Odijk and A. van Hessen (Eds.), *CLARIN in the Low Countries*. London: Ubiquity Press. DOI: <https://doi.org/10.5334/bbi.7>
  17. Van der Lee, C., and Van den Bosch, A. (2017). Exploring lexical and syntactic features for language variety identification. In *Proceedings of the Fourth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial-2017)*, pp. 190–199. Valencia: Association for Computational Linguistics.
  18. Verberne, S., Van den Bosch, A., Wubben, S., and Krahmer, E. (2017). Automatic summarization of domain-specific forum threads: Collecting reference data. In *Proceedings of the 2017 Conference on Human Information Interaction and Retrieval (CHIIR-2017)*.
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## Reviews

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## Encyclopaedic articles

1. Van der Beek, L., and Van den Bosch, A. (2015). Translation technology in the Netherlands and Belgium. In S.-W. Chan (Ed.), *The Routledge Encyclopedia of Translation Technology*, Chapter 21, pp. 352–363. New York, NY: Routledge. ISBN 978-0-415-52484-1
2. Van den Bosch, A. (2010). *Hidden markov models*. In C. Sammut and G. I. Webb (Eds.), *Encyclopedia of Machine Learning*. Berlin: Springer Verlag, pp. 493–494. Also contributed cross-referencing entries on *Markov process*, *Viterbi algorithm*, *Baum-Welch algorithm*, and *Expectation-Maximization algorithm*.

## Development Programs and Training

**Personal coaching** – Oscar Markx, Amsterdam, 2019–2020

**Academic leadership** – Bureau Eva Wiltingh, Berg en Dal, 2004

## Other scientific activities

### Invited lectures, keynotes

1. *Processing text as socio-economic and cultural data*  
Language, Data, and Knowledge (LDK-2017), Galway, Ireland, 19-20 June, 2017.
2. *Listening to millions of voices: Text analytics of historical and new media*  
Hans-Kilian-Vorlesungen, Ruhr Universität Bochum, German, December 14, 2015.
3. *Artificial intelligence and natural language processing*  
Studium Generale, Erasmus University, Rotterdam, the Netherlands, November 30, 2015.
4. *Prediction and surprise in the brain during narrative comprehension*  
Cognitive Aspects of Computational Language Learning Workshop, Lisbon, September 18, 2015.
5. *Implicit grammar in memory-based models of syntactic variation*  
Gradience in Grammar Workshop, Stanford University, CA, USA, January 18, 2014.
6. *Semantics or making sense: Meaning and entailment in text-to-text processing*  
Intelligent Systems Lab Amsterdam Colloquium, University of Amsterdam, December 17, 2013.
7. *Did it really happen? Discovering events and motifs in historical narratives*  
Digital Humanities Workshop in memory of Emanuele Pianta, Trento, Italy, December 10, 2013.
8. *Text analytics for detecting events and motifs in historical texts*  
The 1st International Workshop on Histo-informatics, Kyoto, Japan, November 25, 2013.
9. *Computational modeling: Dividing or equalizing?*  
Nijmegen Lectures 2013, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, January 30, 2013.
10. *Example-based modeling of syntactic alternations.*  
Symposium "New Ways of Analysing Syntactic Variation", Molenhoek, The Netherlands, November 16, 2012.
11. *Employing source-language context in statistical machine translation.*  
Symposium "Exploiting parallel corpora for lexical disambiguation", Ghent University, September 24, 2012.
12. *Big linguistic data.*  
TLA Nijmegen Lecture Series on E-Humanities, Max Planck Institute for Psycholinguistics, Nijmegen, June 6, 2012.
13. *Back to basics: Skousen's natural statistics for language modeling.*  
Symposium on occasion of Lou Boves' farewell lecture, Nijmegen, The Netherlands, April 7, 2011.
14. *Generating texts from memory.*  
Annual School for Information and Knowledge Systems Day, Veldhoven, The Netherlands, November 2, 2010.
15. *Constraint satisfaction inference for dependency parsing and MT.*  
Intelligent Systems Lab Amsterdam Colloquium, University of Amsterdam, Amsterdam, the Netherlands, May 26, 2009.
16. *Memory-based Language Models for Spelling Correction.*  
Twelfth Annual Research Colloquium of the Special Interest Group for Computational Linguistics in the UK and Ireland (CLUKI), Dublin City University, Dublin, Ireland, April 24, 2009.
17. *Memory-based machine translation.*  
CNTS Colloquium, Centre for Dutch Language and Speech, University of Antwerp, Belgium, April 9, 2009.
18. *Constraint satisfaction inference for dependency parsing and MT.*  
NLTC Seminar Series, Dublin City University, Dublin, Ireland, February 17, 2009.
19. *Implicit Linguistics.*  
CLCG Linguistics Colloquium, Groningen, The Netherlands, September 19, 2008.
20. *Mining natural history.*  
SIMIN Spring Symposium, Municipal Museum, The Hague, The Netherlands, June 6, 2008.
21. *Automatic Part-of-Speech tagging .*  
Diachronic Linguistics Meeting, Meertens Institute, Amsterdam, The Netherlands, May 30, 2008.
22. *Facts are little theories.*  
Semantic Web Seminar, University of Utrecht, Utrecht, The Netherlands, March 9, 2008.
23. *Explicit versus implicit computational linguistics.*  
XXIII Congreso de la Sociedad Española para el Procesamiento del Lenguaje Natural (SEPLN-2007), Sevilla, Spain, September 10, 2007.
24. *Natural language processing and machine learning.*  
Free University of Amsterdam AI Group "Natural Language Processing Days", Leusden, The Netherlands, December 12, 2006.
25. *A memory-based learning-plus-inference approach to morphological analysis.*  
Workshop on Flexible Architectures for Large Vocabulary Recognition (FLaVoR), Leuven, Belgium, November 17, 2006.
26. *Constraint satisfaction inference for discrete sequence processing in NLP.*  
Dublin City University, National Centre for Language Technology Seminar Series, Dublin, Ireland, April 19, 2006.
27. *Implicit computational linguistics.*  
University of Amsterdam, Institute for Logic, Language, and Computation, Computational Linguistics Seminar, March 22, 2006.
28. *Automatic correction of coreference resolution and chaining.*  
Workshop on Anaphora Resolution, Mjøelvfjell, Norway, September 29, 2005.



29. *Memory-based understanding of user utterances in a spoken dialogue system: Effects of feature selection and co-learning.*  
Textual Case Based Reasoning Workshop at ICCBR-2005, Chicago, IL, August 24, 2005.
30. *Understanding domain-specific questions and answers.*  
Language and Speech Colloquium Series, Nijmegen University, June 1, 2005.
31. *Learning linguistic sequences.*  
Computational Linguistics Seminar Series, University of Bergen, Bergen, Norway, May 2, 2005.
32. *Learning syntactically valid sequences.*  
Workshop on Machine Learning of Information Extraction, Antwerp, Belgium, March 10, 2005.
33. *Understanding the "More Data" Effect: A Closer Look at Learning Curves.*  
University of Edinburgh Division of Informatics Institute for Communicating and Collaborative Systems / Human Communication Research Centre Seminar Series, January 16, 2004.
34. *Unravelling the intermediate representation myth in natural language processing*  
*Computing with LLI Seminar series*, ILLC, University of Amsterdam, May 31, 2002, on invitation by dr. M. de Rijke.
35. *Text mining*  
Symposium *Dealing with the data flood*, Stichting Toekomstbeeld der Techniek, Rotterdam, April 23, 2002.
36. *Machine learning: Tools for natural language processing*  
*Maastricht Machine Learning Day*, January 10, 2002.
37. *Issues in memory-based natural language processing: Memory, representation, and data*  
University of Pittsburgh, Learning Research and Development Center (LRDC), November 30, 2001.
38. *Conjunctive and disjunctive feature construction*  
WhizBang! Labs-Research colloquium, September 27, 2001.
39. *On the usage of word graphs (and more) to detect dialogue problems.*  
Nijmegen colloquium on Language and Speech, Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, April 4, 2001. With Emiel Krahmer and Marc Swerts.
40. *Situating AI, language and logic in a national Dutch research programme on cognition.*  
NWO Consultation Day "Fruits of Enlightenment: A special programme for the cognitive sciences", Utrecht, February 9, 2001.
41. *Memory-based language processing.*  
IPO Center for User-System Interaction, Eindhoven Technical University, November 10, 2000.
42. *Memory-Based learning and TiMBL.*  
Analogical Modeling of Language (AML) Conference, Brigham Young University, Provo, Utah, March 22, 2000. With Walter Daelemans.
43. *Memory-based language processing: some findings and applications.*  
Text Learning group meeting, School of Computer Science, Carnegie Mellon University, Pittsburgh PA, March 20, 2000.
44. *Robust language technology for speech technology.*  
i IPO Center for User-System Interaction Colloquium series, IPO, Eindhoven Technical University, the Netherlands, March 10, 2000.
45. *Instance-family abstraction in memory-based learning.*  
Ninth Dutch-Belgian Conference on Machine Learning (BENELEARN'99), Maastricht, the Netherlands, November 5, 1999.
46. *Learning word pronunciation.*  
Parlevink Colloquium Series, Department of Theoretical Informatics, University of Twente, The Netherlands. February 9, 1998.
47. *Experiments in machine learning of morpho-phonology.*  
ITK Colloquium Series, Institute for Language Technology and AI, Tilburg University, The Netherlands. December 7, 1995.
48. *A language-independent, data-oriented architecture for grapheme-phoneme conversion.*  
Department of Computer Science Colloquium, Universiteit Maastricht, The Netherlands. May 16, 1994.

## Teaching experience

### Undergraduate level

#### *Radboud University*

*Intelligent information tools*, block course, curriculum *Master Communicatie- en Informatiewetenschappen*, track *Communicatie en beïnvloeding*, Radboud University. Academic years 2011/2012 – 2014/2015.

*Nieuwe media, nieuwe genres* (New media, new genres), block course, curriculum *Master Communicatie- en Informatiewetenschappen*, track *Nieuwe media, taal en communicatie*, Radboud University. Academic years 2013/2014, 2014/2015. With Wilbert Spooren.

*Text Mining*, semester course, Research Master *Language and Communication*, Radboud University and Tilburg University. Academic years 2013/2014, 2014/2015.

*Example-based Language Modeling*, semester course, Research Master *Language and Communication*, Radboud University and Tilburg University. Second semester 2013/2014–2017/2018.

## **Tilburg University**

- Introduction Human Aspects of Information Technology*, quarter year course, curriculum Bachelor *Communication and Information Technology*, School of Humanities, Tilburg University. First semester 2009/2010. With Eric Postma.
- Text mining*, block course, curriculum Master *Human Aspects of Information Technology*, Faculty of Humanities, Tilburg University. First semester 2007/2008 (earlier version of course 2004/2005). With Walter Daelemans.
- Digitaal erfgoed* (Digital heritage), semester course, curriculum Bachelor minor *Computing for the Humanities*, Faculty of Arts, Tilburg University. First semester 2005/2006–2009/2010.
- ICT voor studie en werk* (ICT for study and work), semester course, curriculum Bachelor ACW and CIW, Faculty of Humanities, Tilburg University. First semester 2006/2007, 2007/2008. With Jan de Vuijst.
- Van tekst naar informatie* (From text to information), semester course, curriculum Bachelor minor *Computing for the Humanities*, Faculty of Arts, Tilburg University. Second semester 2005/2006. With Sander Canisius.
- Language and speech technologies: Advanced*, semester course, Research Master *Language and Communication*, Faculties of Arts, Tilburg University and Radboud University. Second semester 2005/2006.
- Informatietechnologie* (Information technology, before 2005/2006 named *Taal- en informatietechnologie*, Language and information technology), semester block course, curriculum Computational Linguistics and AI / Communication and Digital Media, Faculty of Arts, Tilburg University. Second semester 2001/2002 – 2005/2006. With Emiel Kraemer.
- Levende systemen* (Machine learning), semester course, curriculum Computational Linguistics and AI, Faculty of Arts, Tilburg University. Second semester 1999/2000, 2000/2001, 2002/2003.

## **University of Antwerp**

- Cognitive Artificial Intelligence*, semester course, University of Antwerp, Belgium. First semester 2009/2010.
- Language Technology*, semester course, University of Antwerp, Belgium. Second semester 2001/2002–2005/2006.
- Capita selecta Computational Linguistics: Machine Learning of Language*, semester course, University of Antwerp, Belgium. Second semester 2000/2001.

## **Universiteit Maastricht**

- Automatisch leren en redeneren* (Machine learning and automated reasoning), trimester project, curriculum Knowledge Technology, Faculty of General Sciences, Universiteit Maastricht. With Eric Postma, Ton Weijters, and Peter Braspenning. Second trimester 1995/1996 and 1996/1997.
- Kunstmatige intelligentie* (Artificial intelligence), trimester course, curriculum Psychology, Faculty of Psychology, Universiteit Maastricht. With Eric Postma. Third trimester 1995/1996.

## **Graduate and post-graduate levels**

Course modules for the Dutch School of Information and Knowledge Systems (SIKS):

- Machine learning for language modeling*, part of SIKS Advanced Ph.D. course on Computational Intelligence, Utrecht, March 12, 2010.
- Issues in empirical machine learning research*, part of SIKS Basic Ph.D. course on Research methods and methodology for information and knowledge systems, 2005, 2006, 2009–2019.
- Entities in chains*, part of SIKS Advanced Ph.D. course on Probabilistic Methods for Entity Resolution and Entity Ranking, Zeist, April 21, 2009.
- Implicit linguistics in memory-based language modeling*, one-week course as part of the First GLOW Spring School, Brussels, Belgium, April 7–11, 2014.

- Exemplar-based versus abstractionist models of word processing*, one-week course as part of the ESF NetWordS Summer School on Interdisciplinary Approaches to Exploring the Mental Lexicon, with Colin Davis, Dubrovnik, Croatia, July 2–6, 2012.
- Inducing linguistic knowledge from statistical machine translation systems*, one-week course as part of LOT Summer School (Dutch Graduate School in Linguistics), Leuven, Belgium, June 20–24, 2011.
- Memory-based language modeling*, one-week advanced course as part of ESLLI-2010 (22th European Summer School in Logic, Language, and Information), Copenhagen, Denmark, August 16–20, 2010.
- Computational linguistics: A machine-learning approach*, four-day Ph.D. course, Universitat de Barcelona, Barcelona, Spain, October 9–13, 2006.
- Machine learning*, half-semester Ph.D. course shared with Eindhoven Technical University, Tilburg and Eindhoven, April–July 2006.
- Memory-based language processing*, one-week advanced course as part of ESLLI-2003 (15th European Summer School in Logic, Language, and Information), Vienna, Austria, August 18–22, 2003. With Walter Daelemans.
- Memory-based analogical language processing*, one-week course as part of LOT Summer School (Dutch National Research School in Linguistics), Tilburg University, June 23–27, 2003.
- Machine learning and memory based learning for natural language processing*, three-day Ph.D. course as part of a Forskerutdanningskurs Statistik Språkbehandling (Linguistics Workshop on Statistical Language Processing), University of Bergen, Norway, September 30–October 4, 2002.
- Inductive language learning*, one-week introductory course as part of ESLLI-X (the Tenth European Summer School in Logic, Language and Information), Saarbrücken, Germany, August 23–28, 1998.

## Tutorials

- Memory-based models of language learning and processing: A computational account*, tutorial at the 13th International Congress for the Study of Child Language, Amsterdam, July 14, 2014. With Walter Daelemans.
- Text analytics for data journalism*. tutorial at the Annual Meeting of the Association of Investigative Journalists (VVOJ), Ghent, Belgium, November 20, 2010.
- Machine learning for text and speech processing*, tutorial at the Interspeech 2007 Conference, Antwerp, Belgium, August 27, 2007. With Walter Daelemans.
- Machine learning of natural language*, tutorial at the 17th European Conference on Machine Learning and the 10th European Conference on Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD06), Berlin, Germany, September 22, 2006. With Walter Daelemans.
- Models of memory and analogy for natural language learning and processing*, tutorial at the 27th Annual Meeting of the Association for Computational Linguistics (ACL-99), University of Maryland, College Park, Maryland, USA, June 26, 1999.

## Grant acquisition

### Grants awarded:

(abbreviations: NWO = Netherlands Organisation for Scientific Research; KNAW = Royal Dutch Academy for Arts and Sciences; SoBU = Cooperation Association of the Brabant Universities; FWO = Flanders Organisation for Scientific Research; EZ = Dutch Ministry for Economic Affairs; OCW = Dutch Ministry for Education, Culture, and Science. Totalling budgets (including matching) are given in Euros (EUR).)

SoBU project 98-D, *Automatic inductive learning for planning*. 2000–2003. With prof. W. Daelemans, dr. A. Weijters, and prof. H. Wortmann (Eindhoven Technical University). 100,000 EUR. Ph.D. student: L. Maruster (Eindhoven Technical University).

SoBU project 00-C, *Learning to communicate: Machine learn-*

*ing of dialogue strategies*. 2001–2004. With E. Krahmer, J. Terken (Eindhoven Technical University). 105,000 EUR. Ph.D. student: P. Lendvai.

SoBU project 02-10, *Weighted error minimisation in assigning prosodic structure to synthetic speech*. 2002–2004. With J. Terken (Eindhoven Technical University).

- 90,000 EUR. Ph.D. student: O. van Herwijnen (Eindhoven Technical University).
- PROSIT, Prosody from Information in Text.* Funded by the joint NWO and FWO (Flanders Organisation for Scientific Research) Vlaams-Nederlands Comité voor Taal en Cultuur. 2001-2004. With W. Daelemans (UIA, Antwerp, Belgium). 620,000 EUR. Researchers: E. Marsi, M. Reynaert, V. Hoste (UIA).
- Memory models of language.* Funded by NWO *Vernieuwingsimpuls* programme, 2001-2005. 680,000 EUR. Researchers: A. van den Bosch, I. Hendrickx, G.J. Busser.
- VindIT: Combining visual and textual information for information retrieval.* Funded by NWO ToKeN-2000 Programme, 2002-2005. With E.O. Postma (Universiteit Maastricht), L. Vuurpijl and E. Hoenkamp (Nijmegen University). 686,000 EUR. (Tilburg part: 210,000 EUR). Post-doc researcher: M. van Zaanen.
- NEXTENS, Nederlandse Extensie voor Tekst naar Spraak.* Funded by SST, Stichting Spraaktechnologie (Foundation for Speech Technology), 2002-2003. 40,000 EUR. With T. Rietveld (KUN). Development and research: E. Marsi, A. Russell.
- Prosodic annotation for the *Spoken Dutch Corpus*, student assistant team, data generation, and evaluation. Funded by NWO Spoken Dutch Corpus Programme. 2002-2003. 25,000 EUR. With E. Marsi.
- ROLAQUAD: Robust Language Understanding in Question-Answer Dialogues.* Part of *IMIX: Interactive Multimodal Information Extraction*, an NWO Programme. Funded by NWO, 2004-2008. With W. Daelemans, J. Zavrel (Textkernel B.V.). Researchers: S. Canisius and P. Lendvai. 600,000 EUR.
- A-Propos: Pro-active personalization for professional document writing.* Funded by the EZ IOP-MMI (Innovative research programmes: Human-machine interaction) programme, 2004-2008. With L. Boves (Radboud University) and a consortium of Dutch language technology companies. 830,000 EUR (Tilburg part: 200,000 EUR). Researcher: T. Bogers.
- MITCH: Mining Information from Texts in the Cultural Heritage.* Part of *CATCH: Continuous Access to the Cultural Heritage*, an NWO Programme. Funded by NWO, 2005-2009. 560,000 EUR. Researchers: C. Sporleder (post-doc), P. Lendvai (post-doc), M. van Erp (Ph.D. student). Scientific programmer: T. Porcelijn, S. Hunt.
- D-Coi: Dutch Corpus Initiative.* Funded by *STEVIN: Spraak-en Taaltechnologische Essentiële voorzieningen in het Nederlands*, an NWO/FWO/EZ/OCW/AWI/IWT Dutch Language Union Programme. With partners from other Dutch and Flemish universities, 2005-2006. 580,000 EUR (Tilburg part: 84,000 EUR). Post-doc researcher: M. Reynaert.
- Implicit Linguistics.* Funded by NWO *VICI* program, 2006-2011. 1,250,000 EUR. Researchers: A. van den Bosch (PI), M. van Zaanen (post-doc researcher, until September 2009), T. Gaustad van Zaanen (post-doc researcher, from October 2009), H. Stehouwer (Ph.D. student). Scientific programmer: P. Berck.
- Linguistic Data Quality Management.* Funded by NWO *HEFBOOM* program, 2006-2008. 81,000 EUR. Post-doctoral researcher: Martin Reynaert.
- SoNaR: STEVIN Nederlandstalig Referentiecorpus, Phase 1.* Funded by *STEVIN: Spraak-en Taaltechnologische Essentiële voorzieningen in het Nederlands*, an NWO/FWO/EZ/OCW/AWI/IWT Dutch Language Union Programme. With partners from other Dutch and Flemish universities, 2008. 100,000 EUR (Tilburg part: 45,000 EUR). Post-doctoral researcher: Tanja Gaustad van Zaanen.
- MEMPHIX: Memory-based Paraphrasing with Implicit and Explicit Semantics*, a Tilburg University Faculty of Humanities Graduate School project. Ph.D. student: Sander Wubben. With profs. Harry Bunt and Emiel Krahmer.
- HITIME: Historical Timeline Mining and Extraction.* Part of *CATCH: Continuous Access to the Cultural Heritage*, an NWO Programme. Funded by NWO, 2009-2013. 614,000 EUR. Researchers: Kalliopi Zervanou (post-doctoral researcher), Matje van de Camp (Ph.D. student), Steve Hunt (scientific programmer).
- DutchSemCor: A one-million-word text corpus for Dutch with sense-tags*, an NWO Humanities Investment Subsidy 'Medium' project, 2009-2012. With prof. P. Vossen (VU Amsterdam), prof. M. de Rijke (University of Amsterdam). 751,000 EUR (Tilburg part: 140,250 EUR). Post-doctoral researcher: Rubén Izquierdo. Scientific programmer: Maarten van Gompel.
- AMICUS: Automated motif discovery in cultural heritage and scientific communication texts*, an NWO Humanities Internationalization networking grant, 2009-2012. With the universities of Borås (Sweden), Pécs (Hungary), the Hungarian Academy of Sciences, and other international partners. 38,000 EUR.
- PoliticalMashup*, an NWO Humanities Investment Subsidy 'Medium' project, 2010-2013. With prof. M. de Rijke, dr. M. Marx (University of Amsterdam), and prof. G. Voerman (University of Groningen). 552,000 EUR (Tilburg part: 98,000 EUR). Post-doctoral researcher: Martin Reynaert.
- TTNWW: TST Tools voor het Nederlands als Webservices in een Workflow*, a Dutch-Flemish CLARIN cooperation (Dutch part funded by NWO). With partners from other Dutch and Flemish universities, 2010-2012. 1,356,000 EUR (Tilburg part: 75,000 EUR). Post-doctoral researcher: Martin Reynaert. Scientific programmer: Maarten van Gompel.
- ADNEXT: Adaptive Information Extraction over Time*, work package 1 of *P1 Infiniti: Information Retrieval for Information Services*, a FES COMMIT project, 2011-2015. 2,845,000 EUR (Nijmegen part: 284,500 EUR). Ph.D. students: Florian Kunneman and Ali Hürriyetoglu.
- Nederlab*, an NWO Humanities Investment Subsidy 'Big' project. With the Meertens Institute and other partners, 2013-2017. 4,000,000 EUR (Nijmegen part: 150,000 EUR). Post-doctoral researcher: Martin Reynaert. Also with Erwin Komen.
- CLARIAH: Common Lab Research Infrastructure for the Arts and Humanities*, funded by the NWO National roadmap for large-scale research facilities program, 2015-2019. 12,000,000 EUR (Nijmegen part: 500,000 EUR). Scientific programmers: Ko van der Sloot. Also with Henk van den Heuvel, Nelleke Oostdijk, Maarten van Gompel.

*DISCOSUMO: Discussion Thread Summarization for Mobile Devices*, funded by NWO Humanities 'Creative Industry' Strategic Research programme, 2015-2018. 423,920 EUR (Nijmegen part: 215.500 EUR). Post-doctoral researcher: Suzan Verberne.

*TraMOOC: Translation for Massive Open Online Courses*, a Horizon 2020 ICT-17 project. With Humboldt University and other partners, 2015–2018. 3.270.710 EUR (Nijmegen part: 319.550 EUR). Post-doctoral researcher: Iris Hendrickx.

*FutureTDM*, a Horizon 2020 GARRI3-2014 project. With the National Library of the Netherlands and other partners, 2015–2018. 1,388,003 EUR (Nijmegen part: 170,870 EUR). Post-doctoral researcher: Maria Eske-

vich.

*CLARIAH-PLUS: Common Lab Research Infrastructure for the Arts and Humanities*, funded by the NWO National roadmap for large-scale research facilities program, 2019–2023. 13,000,000 EUR (Meertens Institute part: 500,000 EUR).

*Better informing citizens about current debates: Moderating and Summarizing Online Discussions*, funded by NWO Exact Sciences / Social Sciences and Humanities, Creative Industry programme, "NWO Digital Society - the informed citizen", 2020–2024. With Emiel Kraemer (Tilburg University) and nu.nl. 500,000 EUR (Meertens Institute part: 250.000 EUR).

## Professional organizations

Treasurer of STIL, *Stichting Toepassende Inductieve Leertechieken* (Foundation for Inductive Learning Applications) (Treasurer 2008–present; Chair 2002–2008; Founding board member since 1997).

Chair of BNVKI-AIABN: Benelux Association for Artificial Intelligence (2006–2011; Secretary 2001–2006).

President of SIGNLL, *Special Interest Group on Natural Language Learning* of the Association for Computational Linguistics (ACL) (2005–2007; Secretary 2003–2005; Information officer 1995–2003).

President of SIGHUM, *Special Interest Group on Language Technologies for the Socio-economic Sciences and the Humanities* of the Association for Computational Linguistics (ACL) (2013–2015).

## Awards

*Best Paper Award*, Sixth International Workshop on Computational Models of Narrative, CMN-2015, Atlanta, Georgia, USA. With Folgert Karsdorp, Marten Van der Meulen, Theo Meder.

*Best Paper Award*, Benelux AI Conference, BNAIC-2014, Nijmegen, The Netherlands, November 2014. With Florian Kunneman.

*Best Explanation Award*, AI Video Competition, AAAI-2007, Vancouver, CA, August 2007.

*Research Award 2002*, Faculty of Arts, Tilburg University. With Hans Broekhuis and Ad Backus.

*SNS Limburg Award 1998*, best Ph.D. thesis Universiteit Maastricht 1997–1998.

## Advice

Advisor (promotor) of ongoing Ph.D. projects

1. Martijn Bentum, Radboud University. With Mirjam Ernestus and Louis ten Bosch.
2. Lucas van der Deijl, University of Amsterdam. With Lia van Gemert.
3. Alessandro Lopopolo, Radboud University. With Karl-Magnus Petersson, Roel Smeets, and Stefan Frank.
4. Louis Onrust, Radboud University and University of Leuven. With Hugo Van hamme.
5. Eric Sanders, Radboud University.
6. Roel Smeets, Radboud University. With Maarten De Pourcq.
7. Robbert De Troij, University of Leuven and Radboud University. With Dirk Speelman, Benedikt Szmezsanyi, and Stefan Grondelaers.
8. Chara Tsoukala, Radboud University. With Stefan Frank and Mirjam Boersma.
9. Jinbiao Yang, Radboud University. With Stefan Frank.

Advisor (promotor) or co-advisor (co-promotor) of completed Ph.D.s

1. Ali Hürriyetoglu, *Extracting actionable knowledge from microtexts*, Radboud University, June 20, 2019. Promotor, with Nelleke Oostdijk.
2. Sara Ahmadi, *Exploiting properties of the human auditory system and compressive sensing methods to increase noise robustness in ASR*, Radboud University, November 2, 2017. Promotor, with Bert Cranen and Louis ten Bosch (co-promoters).
3. Peter Berck, *Memory-based text correction*, Radboud University, April 12, 2017. Promotor, with Eric Postma.
4. Florian Kunneman, *Modelling patterns of time and emotion in Twitter #anticipointment*, Radboud University, March 21, 2017. Promotor, with Margot van Mulken.
5. Dong Nguyen, *Text as social and cultural data: A computational perspective on variation in text*, University of Twente, March 10, 2017. Promotor, with Franciska de Jong and Mariët Theune.
6. Folgert Karsdorp, *Retelling stories: A computational-evolutionary perspective*, Radboud University, December 6, 2016. Promotor, with Franciska de Jong, Theo Meder, and Mariët Theune.
7. Matje van de Camp, *A link to the past: Constructing historical social networks from unstructured data*, Tilburg University, March 2, 2016. Promotor, with Eric Postma.
8. Sander Wubben, *Text-to-text generation by monolingual machine translation*, Tilburg University, June 5, 2013. Promotor, with Emiel Kraahmer.
9. Herman Stehouwer, *Statistical language models for alternative sequence selection*, Tilburg University, December 7, 2011. Promotor, with Jaap van den Herik and Menno van Zaanen (co-promotor).
10. Marieke van Erp, *Accessing natural history: Discoveries in data cleaning, structuring, and retrieval*, Tilburg University, June 30, 2010. Promotor, with co-promotor Piroska Lendvai.
11. Maarten van Gompel, *Context as Linguistic Bridges*, Radboud University, May 27, 2020. Promotor.
12. Maria Mos, *Complex lexical items*, Tilburg University, May 12, 2010. Promotor, with co-promoters Anne Vermeer and Ad Backus.
13. Toine Bogers, *Recommender systems for social bookmarking*, Tilburg University, December 8, 2009. Promotor.
14. Stephan Raaijmakers, *Multinomial language learning: Investigations into the geometry of language*, Tilburg University, December 1, 2009. Promotor, with Walter Daelemans.
15. Sander Canisius, *Structured prediction for natural language processing: A constraint satisfaction approach*, Tilburg University, February 13, 2009. Promotor, with Walter Daelemans.
16. Martin Reynaert, *Text induced spelling correction*, Tilburg University, December 2, 2005. Co-promotor. Promotor: Walter Daelemans.
17. Iris Hendrickx, *Local classification and global estimation: Explorations of the k-nearest neighbor algorithm*, Tilburg University, November 28, 2005. Co-promotor. Promotor: Walter Daelemans.
18. Piroska Lendvai, *Extracting information from spoken input*, Tilburg University, December 20, 2004. Co-promotor.
19. Laura Maruster, *A machine learning approach to understand business processes*, Eindhoven Technical University, August 27, 2003. Co-promotor, with Emiel Kraahmer (co-promotor), Walter Daelemans (first promotor), and Harry Bunt (second promotor).
20. Sabine Buchholz, *Memory-based grammatical relations*, Tilburg University, The Netherlands, December 13, 2002. Co-promotor. Promotors: Walter Daelemans and Harry Bunt.

#### Member of Ph.D. committee

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|--|---|
| <ol style="list-style-type: none"> <li>1. Giovanni Cassani, <i>The bootstrapping toolbox: which cues are more useful to learn lexical categories and why</i>. University of Antwerp, May 16, 2019. Committee member.</li> <li>2. Rob van der Goot, <i>Normalization and parsing algorithms for uncertain input</i>. University of Groningen, April 19, 2019. Manuscript committee member.</li> </ol> | <ol style="list-style-type: none"> <li>3. Shaheen Syed, <i>Topic discovery from textual data: Machine learning and natural language processing for knowledge discovery in the fisheries domain</i>. Utrecht University, March 20, 2019. Manuscript committee member.</li> <li>4. Thiago Castro Ferreira, <i>Advances in natural language generation: Generating varied outputs from semantic inputs</i>. Tilburg University, September 19,</li> </ol> |
|--|---|

2018. Manuscript committee member.
5. Zubair Afzal, *Text mining to support knowledge discovery from electronic health records*. Erasmus University Rotterdam, July 3, 2018. Manuscript committee member.
  6. Isa Maks, *Lexical Model and Acquisition of Subjectivity Lexicon to apply to Sentiment and Opinion Analysis of Dutch Text*. Vrije Universiteit Amsterdam, June 27, 2018. Manuscript committee member.
  7. Susanne Kleijn, *Clozing in on readability*. Utrecht University, April 6, 2018. Manuscript committee member.
  8. Tom Kenter, *Text understanding for computers*. University of Amsterdam, December 15, 2017. Manuscript committee member.
  9. Marlies van der Wees, *What's in a domain? Towards fine-grained adaptation for machine translation*. Universiteit van Amsterdam, December 8, 2017. Manuscript committee member.
  10. Karlien Franco, *Concept features and lexical diversity: A dialectological case study on the relationship between meaning and variation*. Katholieke Universiteit Leuven, November 17, 2017. Committee member.
  11. David Graus, *Entities of Interest: Discovery in digital traces*. University of Amsterdam, June 16, 2017. Manuscript committee member.
  12. Yevgeni Matusevich, *Learning constructions from bilingual exposure: Computational studies of argument structure acquisition*. Tilburg University, December 19, 2016. Committee member.
  13. Zhaochun Ren, *Monitoring social media: Summarization, classification & recommendation*, University of Amsterdam, October 6, 2016. Manuscript committee member.
  14. Ruud Mattheij, *The eyes have it*. Tilburg University, October 5, 2016. Committee member.
  15. Wen Li, *Understanding geo-spatial information on social media*. Delft University, May 23, 2016. Manuscript committee member.
  16. Maya Sappelli, *Knowledge work in context: User centered knowledge worker support*. Radboud University, February 19, 2016. Manuscript committee member.
  17. Christine Liebrecht, *Intens krachtig: Stilistische intensiverders in evaluatieve teksten*. Radboud University, July 10, 2015. Committee member.
  18. Orphée de Clerck, *Tipping the scales: exploring the added value of deep semantic processing on readability prediction and sentiment analysis*, Ghent University, July 6, 2015. Manuscript committee member.
  19. Niels Bloom, *Grouping by association: using associative networks for document categorization*, University of Twente, June 10, 2015. Manuscript committee member.
  20. Binyam Gebrekidan Gebre, *Machine learning for gesture recognition from videos*, Radboud University, February 9, 2015. Manuscript committee member.
  21. Jasmina Maric, *Web communities, immigration, and social capital*, Tilburg University, November 18, 2014. Manuscript committee member.
  22. Eva D'hondt, *Cracking the patent*, Radboud University, June 17, 2014. Committee member.
  23. Joost van Doremalen, *Developing automatic speech recognition-enabled language learning applications: From theory to practice*, Radboud University, May 16, 2014. Manuscript committee member.
  24. Mena Habib, *Named entity extraction and disambiguation for informal text: The missing link*, Twente University, May 9, 2014. Manuscript committee member.
  25. Daniel Kuhlwein, *Machine learning for automated reasoning*, Radboud University, April 14, 2014. Manuscript committee member.
  26. Thomas Markus, *Where social noise and structure converge*, Utrecht University, January 7, 2014. Committee member.
  27. Iris Hanique, *Mental representation and processing of reduced words in casual speech*, Radboud University, November 13, 2013. Committee member.
  28. Erwin Komen, *Finding focus: A study of the historical development of focus in English*, Radboud University, June 25, 2013. Committee member.
  29. Joel Ribero, *Multidimensional process discovery*, Eindhoven Technical University, March 13, 2013. Committee member.
  30. Els Lefever, *Exploiting parallel corpora for lexical disambiguation*, Ghent University, Belgium, September 24, 2012. Jury member.
  31. Daphne Theijssen, *Making choices: Modelling the English dative alternation*, Radboud University, June 18, 2012. Committee member.
  32. Mike Kestemont, *Het gewicht van de auteur: Een onderzoek naar stylometrische auteursherkenning in de Middelnederlandse epiek*, University of Antwerp, Belgium, May 23, 2012. Jury member.
  33. Cagri Cöltekin, *Catching words in a stream of speech: Computational simulations of segmenting transcribed child-directed speech*, University of Groningen, December 8, 2011. Committee member.
  34. Barbara Plank, *Domain adaptation for parsing*, University of Groningen, December 8, 2011. Committee member.
  35. Owen Lamont, *Applications of memory based learning to spoken dialogue system development*, Murdoch University, Australia, 2011. External examiner.
  36. Raoul Frijters, *Text mining the biomedical literature for application to drug discovery*, Radboud University, September 16, 2011. Committee member.
  37. Xiaoyu Mao, *Airport under control: Multiagent scheduling for airport ground handling*, Tilburg University, May 25, 2011. Committee member.
  38. Bart Bogaert, *Cloud content contention*, Tilburg University, March 30, 2011. Committee member.
  39. Maarten Clements, *Personalised access to social media*, Delft University of Technology, December 6, 2010. Committee member.

40. Eline Westerhout, *Definition extraction for glossary creation: A study on extracting definition for semi-automatic glossary creation in Dutch*, Utrecht University, July 2, 2010. Committee member.
41. Tim van de Cruys, *Mining for meaning: The extraction of lexico-semantic knowledge from text*, University of Groningen, June 24, 2010. Committee member.
42. Lineke Sneller, *Does ERP add company value? A study for The Netherlands and the United Kingdom*, Nyenrode School of Accountancy & Controlling, June 18, 2010. Committee member.
43. Suzan Verberne, *In search of the why: Developing a system for answering why-questions*, Radboud University, April 27, 2010. Committee member.
44. Sander Bakkes, *Rapid adaptation of video game AI*, Tilburg University, March 3, 2010. Committee member.
45. Laurens van der Maaten, *Feature extraction from visual data*, Tilburg University, June 23, 2009. Committee member.
46. Fritz Reul, *New architectures in computer chess*, Tilburg University, June 17, 2009. Committee member.
47. Jeroen Geertzen, *Dialogue act recognition and prediction: Explorations in computational dialogue modelling*, Tilburg University, February 11, 2009. Committee member.
48. Benjamin Torben Nielsen, *Dendritic morphology: Function shapes structure*, Tilburg University, December 3, 2008. Committee member.
49. Jesús Giménez Linares, *Empirical machine translation and its evaluation*, Universitat Politècnica de Catalunya, Barcelona, Spain, July 2, 2008. Jury member.
50. Grzegorz Chrupala, *Towards a machine-learning architecture for lexical functional grammar parsing*, Dublin City University, Ireland, June 10, 2008. External examiner.
51. Emmanuel Keuleers, *Memory-based learning of inflectional morphology*, Universiteit Antwerpen, Belgium, March 6, 2008. Jury member.
52. Christian Biemann, *Unsupervised and knowledge-free natural language processing in the structure discovery paradigm*, Universität Leipzig, Germany, 2007. Referee.
53. Xavier Carreras, *Learning and inference in phrase recognition: A filtering-ranking architecture using perceptron*, Universitat Politècnica de Catalunya, Barcelona, Spain, October 28, 2005. Committee member.
54. Véronique Hoste, *Optimization issues in machine learning of coreference resolution*, University of Antwerp, Belgium, March 11, 2005. Jury member.
55. Olga van Herwijnen, *Weighted error minimisation in assigning prosodic structure for synthetic speech*, Eindhoven Technical University, May 17, 2004. Committee member.
56. Stefan Frank, *Computational modeling of discourse comprehension*, Tilburg University, February 27, 2004. Committee member.
57. Brian Sheppard, *Toward perfect play of scrabble*, Universiteit Maastricht, July 5, 2002. External reviewer.

#### Member of editorial board, journal advisory board, or standing reviewer committee

- Computational Linguistics (2003–2005)
- Computational Linguistics in the Netherlands Journal (from 2011)
- FoLLI Publications on Language, Logic, and Information (2005–2011)
- Language and Speech Technology Technical Report Series (from 2012)
- Research on Language and Computation (2006–2011)
- Transactions of the Association for Computational Linguistics (from 2014)

#### Reviewer for journal (alphabetic)

- ACM Computing Surveys
- AI Communications
- Artificial Intelligence
- Annals of Biomedical Engineering
- Computers in Industry
- Computer Speech and Language
- Computational Intelligence
- Computational Linguistics
- Data and Knowledge Engineering
- Frontiers in Psychology
- IEEE Transactions on Knowledge and Data Engineering
- IEEE Transactions on Speech and Audio Processing
- Information Fusion
- Information Systems
- International Computer Games Association Journal
- International Journal of Document Analysis and Recognition
- International Journal of Lexicography
- Iranian Journal of Electrical and Computer Engineering
- Journal for Artificial Intelligence Research
- Journal of Germanic Linguistics
- Journal of Machine Learning Research



- Journal of Management Information Systems
- Journal of Natural Language Engineering
- Koers
- Language Resources and Evaluation
- Literary and Linguistic Computing
- Literator: Tydskrif vir besondere en vergelykende taal- en literatuurstudie
- Machine Learning Journal
- Machine Translation
- PLOS ONE
- Proceedings of the National Academy of Sciences of the United States of America (PNAS)
- Proceedings of the Royal Society A
- Research on Language and Computation
- Science
- Speech Communication
- Tijdschrift voor Taalbeheersing
- Transactions of the Association for Computational Linguistics
- Written Language and Literacy

#### Programme chair / general chair (reversed chronological)

- ACL-2016, 54th Annual Meeting of the Association for Computational Linguistics. Humboldt University, Berlin, Germany. General chair.
- HistoInformatics-2016, 3rd International Workshop on Computational History. 12–16 July, Krakow, Poland. Programme co-chair with Adam Jatowt, Marten Düring, and Johannes Preiser-Kappeller.
- HistoInformatics-2014, 2nd International Workshop on Computational History. November 10, 2014, Barcelona, Spain. Programme co-chair with Adam Jatowt, Marten Düring, and Gaël Dias.
- BNAIC-2014, 26th Benelux Artificial Intelligence Conference. November 6–7, 2014, Radboud University, Nijmegen, The Netherlands. Programme co-chair with Johan Kwisthout, Tom Heskes, Peter Desain, and Bert Kappen.
- BENELEARN-2013, 22nd Belgian-Dutch Conference on Machine Learning. June 3, 2013, Radboud University, Nijmegen, The Netherlands. Programme co-chair with Tom Heskes and David van Leeuwen.
- LaTeCH-2012, EACL-2012 Sixth Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities. April 24, 2012, Avignon, France. Programme co-chair with Kalliopi Zervanou.
- ACL-2007, 45th Annual Meeting of the Association for Computational Linguistics. June 25–30, 2007, Prague, Czech Republic. Programme co-chair with Annie Zaenen (PARC).
- LaTeCH, ACL-2007 First Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities. June 28, 2007, Prague, Czech Republic. Programme co-chair with Caroline Sporleder (Tilburg University, Saarland University) and Claire Grover (University of Edinburgh).
- ESSLI-2004, European Summer School on Logic, Language, and Information. August 9–20 2004, Nancy, France. Programme chair.
- CoNLL-2002, Sixth Conference on Computational Natural Language Learning. August 31–September 1, 2002, Taipei, Taiwan. Programme co-chair with Dan Roth (UIUC).
- BNAIC-2000, Twelfth Belgian-Dutch Artificial Intelligence Conference. November 1–2 2000, Kaatsheuvel, The Netherlands. Programme co-chair with Hans Weigand (Tilburg University).
- BENELEARN-1997, Seventh Belgian-Dutch Conference on Machine Learning. October 21, 1997, Tilburg University, Tilburg, The Netherlands. Programme co-chair with Peter Flach and Walter Daelemans.

#### Member of programme committee / reviewer (alphabetic)

- AAAI, Annual Meeting of the Association for the Advancement of Artificial Intelligence (2008). Satellite events:
  - AAAI-2005 Workshop on Spoken Language Understanding for Conversational Systems, Pittsburgh, PA, USA (2005)
- ABC, European Conference of the Association of Business Communication (2011)
- ACL, Annual Meeting of the Association for Computational Linguistics (2003, 2005, 2006, 2008–2012, area chair for ACL-2004, programme chair for ACL-2007). ACL mentor programme 2009, 2010. Satellite events:
  - ACL-2002 Morphological and Phonological Learning Workshop, Philadelphia, PA, USA (2002)
  - ACL-2005 Workshop on Psychocomputational Models of Language Acquisition, Ann Arbor, MI, USA (2005)
  - ACL-2005 Workshop on Software
  - ACL-2007 Workshop on Language Technology for Cultural Heritage, Prague, Czech Republic (2007)
  - ACL-2007 Workshop on Cognitive Aspects of Computational Language Acquisition (2007, 2015, 2016)
  - ACL-2010 Workshop on Domain Adaptation for Natural Language Processing, Uppsala, Sweden (2010)
- AND, Workshop on Analytics for Noisy Unstructured Text Data (2009–2011)

- BENELEARN, Belgian-Dutch Conference on Machine Learning (1996–2001, 2005–2011)
- BNAIC, Belgium-Netherlands Artificial Intelligence Conference (1998–2010)
- CLIN, Computational Linguistics in the Netherlands (1999–2009)
- COGSCI, The Annual Meeting of the Cognitive Science Society (2009)
- COLING, International Conference on Computational Linguistics (2002, 2008)
- CoNLL, Conference on Computational Natural Language Learning (1998–2011)
- DIR, Dutch-Belgian Information Retrieval Workshop (2008–2011)
- EACL, Annual Meeting of the European Chapter of the Association for Computational Linguistics (2001, 2009, 2012, area chair for EACL-2006). Satellite events:
  - EACL-2009 Workshop on Computational Linguistic Aspects of Grammatical Inference, Athens, Greece (2009)
  - EACL 2009 Workshop on Cognitive Aspects of Computational Language Acquisition, Athens, Greece (2009)
- EAMT, Annual Meeting of the European Association for Machine Translation (2010–2012, 2015)
- ECAI, European Conference on Artificial Intelligence (2008, area chair for 2010)
- ECML, European Conference on Machine Learning (1998, 2003; area chair for ECML-PKDD-2008). Satellite event:
  - ECML-97 MLNet Familiarisation Workshop on Empirical Learning of Natural Language, Prague, Czech Republic (1997)
- EMNLP, Empirical Methods in Natural Language Processing Conference (2004–2011, area chair 2010 and 2013)
- ESSLLI, European Summer School on Logic, Language, and Information (programme chair in 2004). Satellite events:
  - ESSLLI-2002 Workshop on Machine Learning Approaches in Computational Linguistics, Trento, Italy (2002)
  - ESSLLI-2007 Workshop on Example-based Models of Language Acquisition and Use, Dublin, Ireland (2007)
  - ESSLLI Student Session (2005–2008)
- ICML, International Conference on Machine Learning (2003, 2007, 2008, area chair for 2005 and 2006)
- IJCAI, International Joint Conference on Artificial Intelligence (2003)
- IJCNLP, International Joint Conference on Natural Language Processing (2011)
- INFWET, Interdisciplinaire Conferentie Informatiewetenschap (2004)
- Interspeech/ICSLP, International Conference on Spoken Language Processing (2006, 2007)
- LaTeCH, Workshop on Language Technology for Cultural Heritage Data (2007–2014)
- LREC, International Conference on Language Resources and Evaluation (2006, 2008, 2010)
- NIPS, Conference on Neural Information Processing Systems (2008, 2009)
- NLDB, International conference on Application of Natural Language Processing to Information Systems (2012)
- \*SEM, Joint Conference on Lexical and Computational Semantics (2013, 2015)

## Scientific advice

- Netherlands
  - Humanities integrator, Netherlands eScience Centre (2012–2017).
  - Reviewer, NWO programs *Vrije Competitie (Open Competitie)*, *Vernieuwingsimpuls*, *Mozaïek*, *Talent*, *Cognition*
  - Advisor, NWO *Taalportaal* program (2011)
  - Advisor, NWO *CLARIN-NL* program (2010–2011)
  - Advisor, Lorentz Center (2011–2013)
  - Evaluator, Nederlandse Taalunie (Dutch Language Union) (2007)
- International
  - Reviewer, ESF
  - Reviewer, EPSRC *Advanced Fellowship* program, UK
  - Reviewer, BSF (United States–Israel Bi-national Science Foundation) program
  - Reviewer, ICREA (Institució Catalana de Recerca I Estudis Avançats) *Senior Researcher* program, Spain/Catalunya

- Reviewer, IWT-Vlaanderen, Belgium
- Reviewer, VLAIO, Flanders, Belgium
- Reviewer, NRF South Africa

#### Scientific board memberships

- Chair, board of the Centre for Language and Speech Technology, Faculty of Arts, Radboud University (from 2012, chair 2015–2018)
- Member, scientific board of NWO Gravity *Language in Interaction* programme (2012–2017)
- Member, board of National Roadmap for Large-Scale Research Facilities Programme CLARIAH (Common Lab Research Infrastructure for the Arts and Humanities) (from 2014)
- Chair, advisory board of Instituut voor de Nederlandse Taal (INT) (from 2018)

#### Advisory board and steering group memberships

- Member, eHumanities.nl network steering committee (from 2016)
- Member, CLARIAH board (Common Lab Research Infrastructure for the Arts and Humanities) (from 2015)
- Member, KNAW DANS scientific advisory board (Data Archiving and Networked Services) (2013–2017)
- Member, KNAW Huygens ING scientific advisory board (Huygens Institute for the History of the Netherlands) (2012–2017)
- Chair, Nederlandse Taalunie advisory board for INL (Dutch Language Union) (2011–2015)

#### Scientific programme committee memberships

- Netherlands eScience Center *ASDI* (Accelerating Scientific Discovery), chair of the board (2016)
- KNAW Programme *Computational Humanities*, board member (2009–2016)
- NWO Programme *CATCH* (Continuous Access to Cultural Heritage), board member (2004–2010)
- NWO Programme *IMIX* (Interactive Multimodal Information Extraction), board member (2002–2008)